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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/057,369	01/24/2002	Hideo Asano	JP920000390US1	JP920000390US1 1978	
7	7590 02/25/2004		EXAMINER		
IBM Corporation			NGUYEN, VIET Q		
Intellectual Property Law 5600 Cottle Road			ART UNIT	PAPER NUMBER	
(L2PA-0142)			2818		
San Jose, CA	95193		DATE MAILED: 02/25/2004	DATE MAILED: 02/25/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/057,369	ASANO ET AL.				
	omec Action Gammary	Examiner	Art Unit				
	The MALLING DATE of this committee in the	Viet Q Nguyen	2818				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)	Responsive to communication(s) filed on Ele	ction filed on 12/16/03.					
	•	is action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)⊠ 7)⊠	<ul> <li>✓ Claim(s) 1-15 is/are pending in the application.</li> <li>4a) Of the above claim(s) 11-13 is/are withdrawn from consideration.</li> <li>✓ Claim(s) 8 is/are allowed.</li> <li>✓ Claim(s) 1,2,4,9 and 14 is/are rejected.</li> </ul>						
Applicat	ion Papers						
9) 🗌	The specification is objected to by the Examir	ner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (	under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachmer			(070 (12)				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) Infor	rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date	es 🗖 84 12 - e 1 . e		O-152)			

Application/Control Number: 10/057,369

Art Unit: 2818

## **DETAILED ACTION**

1. The applicant's election of Group I, claims 1-10 and 14-15 on 12/16/03 has been entered and acknowledged.

Claims 1-10, and 14-15 are present for examination.

Claims 11-13 are withdrawn from consideration.

2. In claim 3, line 2, the word "connectedin" is misspelled. Correction is requested.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2, 4, 9, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takashima (5,894,447).

Takashima (see Fig. 6) clearly shows a non-volatile memory device comprising at least memory cell (see example selected cell connected to bitline DL1, DL2) and a plurality of sub-cells (as magneto-resistive elements R connected in series) included in such selected cell, which also constitutes one such memory cell as a whole. The sub-cells (or resistive

elements R) is seen as connected in parallel, and there is a selection transistor Q2 to Q7), each is connected to select a respective memory cell associated with a data line (DL0 to DLn shown) as recited.

5. Other claims contain allowable subject matter over prior arts of record but dependent upon rejected base claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viet Q Nguyen whose telephone number is (571) 272-1788. The examiner can normally be reached on 7am-6pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (703) 308-4910. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Viet Q Nguyen Primary Examiner Application/Control Number: 10/057,369

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